

CLAIM AMENDMENTS

1. (Previously Presented) A high density fabric for air bag obtained by shrink processing at an overfeed ratio of 0-15%, and having an air permeability under a differential pressure of 50 kPa of 2.5 L/cm²/min. or less, and an air permeability index (50 kPa) calculated by formula (1) of 1.2 or more:

$$\text{Air permeability index (50 kPa)} = (\text{Log (Q (55 kPa))} - \text{Log (Q (45 kPa)))}) / (\text{Log 55}-\text{Log 45}) \quad (\text{Formula 1})$$

Q (55 kPa): air permeability under 55 kPa differential pressure (l/cm²/min.)

Q (45 kPa): air permeability under 45 kPa differential pressure (l/cm²/min.)

2. (Original) The high density fabric for air bag according to claim 1, wherein the air permeability (50 kPa) is 1.3 or more.

3. (Original) The high density fabric for air bag according to claim 1, wherein the difference in crimp percentage between warp and weft is 4% or more.

4. (Original) The high density fabric for air bag according to claim 1, wherein the degree of intermingle of raw yarn before weaving is 10 to 30 times/m.

5. (Previously Presented) The high density fabric for air bag according to claim 1, wherein the cover factor calculated by formula (2) in the high density fabric is in the range of 1800 to 2400:

$$\text{Cover factor} = A^{0.5} \times (W1) + B^{0.5} \times (W2) \quad (\text{Formula 2})$$

A: Coarseness of warp (dtex)

B: Coarseness of weft (dtex)

W1: Density of warp (stripes/in.)

W2: Density of weft (stripes/in.).

6. (Original) The high density fabric for air bag according to claim 1, wherein the degree of intermingle of warp or weft of the high density fabric is 8 times/min. or less.

7. (Currently Amended) A method for manufacturing a high density woven fabric comprising the step of weaving a high density woven fabric with a fiber filling percentage in the reed at the time of the weaving defined by the following formula (3) to be 110 or less:

$$\text{Fiber filling percentage (\%)} = 11.3 \times N \times (D/\rho)^{0.5} / (\alpha/L) \text{ (Formula 3)}$$

N: Number of yarns ~~Coarseness of yarn~~ to be inserted in a reed wire (dtex)

D: Coarseness of warp (dtex)

ρ : Density of fiber (g/cm^3) (g/cm^2)

α : Reed space percentage (%)

L: Number of reed wires (string/cm).

8. (Previously Presented) The method for manufacturing a high density woven fabric according to claim 7, wherein the fiber filling percentage in the reed is 100.

9. (Previously Presented) The method for manufacturing a high density woven fabric according to claim 7, wherein the fiber filling percentage in the reed is 90 or less.

10. (Previously Presented) The method for manufacturing a high density woven fabric according to claim 7, wherein the fiber filling percentage in the reed is 80 or less.

11. (Previously Presented) The method for manufacturing a high density woven fabric according to claim 7, wherein the high density woven fabric has a cover factor as defined by the following formula (2) in the range of 2000 to 2500:

$$\text{Cover factor} = A^{0.5} \times (W1) + B^{0.5} \times (W2) \quad (\text{Formula 2})$$

A: Coarseness of warp (dtex)

B: Coarseness of weft (dtex)

W1: Density of warp (stripes/in.)

W2: Density of weft (stripes/in.)

12. (Original) The method for manufacturing a high density woven fabric according to claim 7, wherein the space percentage of the reed wires is preferably in the range between 45% and 70%.

13. (Original) The method for manufacturing a high density woven fabric according to claim 7, wherein the yarn before weaving is non-twist.